

Cloud County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

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Using the most recent IMPLAN data available (2014) adjusted for 2016, 15 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Cloud County economy.¹

These 15 sectors have a total direct output of approximately **\$195.4 million** and support **622.3 jobs** in Cloud County. Running the model for all 15 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Cloud County Economy						
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵	Output % of Gross Regional Product
Direct Effect	622.3	11.59%	\$72,677,563.24	22.65%	\$195,369,599.61	60.89%
Indirect Effect	129.3	2.41%	\$7,205,398.32	2.25%	\$16,035,457.55	5.00%
Induced Effect	164.2	3.06%	\$9,289,629.98	2.90%	\$17,882,338.90	5.57%
Total Effect	915.8	17.06%	\$89,172,591.54	27.79%	\$229,287,396.06	71.46%

As shown in the above table, agriculture, food, and food processing sectors support **915.8 jobs**, or **17.06%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$229.3 million**, roughly **71.46% of the economy**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 15 agriculture, food, and food processing sectors is approximately **\$89.2 million**, or **27.79% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **27.79% of the total economy**.

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **316 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Cloud County.

Top Ten Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	316.0	\$55,647,777.44
Animal, except poultry, slaughtering	111.3	\$69,248,414.65
Grain farming	58.2	\$33,621,381.02
Animal production, except cattle and poultry and eggs	48.9	\$8,467,649.44
Wholesale trade	33.6	\$5,853,390.76
Landscape and horticultural services	31.6	\$1,056,930.64
Truck transportation	22.8	\$3,137,031.58
Real estate	19.6	\$1,639,262.87
All other crop farming	18.6	\$2,278,107.01
Veterinary services	15.2	\$1,285,972.31

The animal, except poultry, slaughtering sector directly contributes approximately **\$90.9 million** to the Cloud County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Sectors by Output		
Sector	Total Employment	Total Output
Animal, except poultry, slaughtering	111.3	\$90,922,836.11
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	316.0	\$10,929,879.57
Grain farming	58.2	\$10,462,692.23
Oilseed farming	10.5	\$4,387,955.18
Animal production, except cattle and poultry and eggs	48.9	\$3,851,691.24
Wholesale trade	33.6	\$2,171,469.95
Dairy cattle and milk production	6.4	\$1,517,769.39
Owner-occupied dwellings	0.0	\$1,254,808.82
Truck transportation	22.8	\$1,083,112.06
All other crop farming	18.6	\$705,742.10

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Cloud County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	10.5	\$19,170,057.96
Grain farming	58.2	\$33,621,381.02
Vegetable and melon farming	0.2	\$57,040.07
Fruit farming	0.2	\$23,041.39
Greenhouse, nursery, and floriculture production	0.2	\$42,153.09
All other crop farming	18.6	\$2,278,107.01
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	316.0	\$55,647,777.44
Dairy cattle and milk production	6.4	\$3,851,691.24
Poultry and egg production	0.0	\$50,769.53
Animal production, except cattle and poultry and eggs	48.9	\$8,467,649.44
Animal, except poultry, slaughtering	111.3	\$69,248,414.65
Bread and bakery product, except frozen, manufacturing	4.8	\$523,564.26
Frozen cakes and other pastries manufacturing	0.3	\$45,049.56
Veterinary services	15.2	\$1,285,972.31
Landscape and horticultural services	31.6	\$1,056,930.64

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Cloud County, the retail sector was omitted.